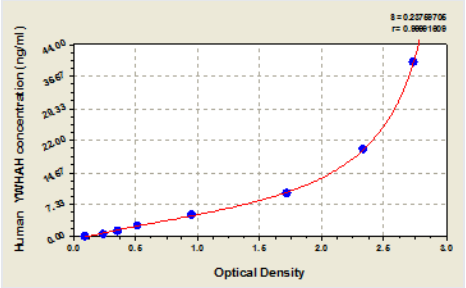
Tyrosine 3-Monooxygenase/Tryptophan 5-Monooxygenase Activation Protein, Eta Poly (YWHAH) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide (YWHAH), ELISA Kit
Full Product Name	Human 14-3-3 protein eta, YWHAH ELISA Kit
Product Gene Name	YWHAH elisa kit
Product Synonym Names	Human 14-3-3 protein eta (YWHAH) ELISA kit; LL22NC03-44A4.1; YWHA1; 14-3-3 eta; tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein; eta polypeptide
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, plasma, tissue homogenates.
Detection Range	0.625 ng/ml -40 ng/ml.
Sensitivity	0.156 ng /ml.
Specificity	This assay has high sensitivity and excellent specificity for detection of human YWHAH. No significant cross-reactivity or interference between human YWHAH and analogues was observed.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.
Molecular Weight	28,219 Da
OMIM	113508
3D Structure	ModBase 3D Structure for Q04917
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for YWHAH elisa kit	Principle of the Assay||This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for YWHAH has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any YWHAH present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for YWHAH is added to the wells. After washing, avidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of YWHAH bound in the initial step. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of YWHAH elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for YWHAH purchase	MBS922335 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide (YWHAH) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing YWHAH. The ELISA analytical biochemical technique of the MBS922335 kit is based on YWHAH antibody-YWHAH antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect YWHAH antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, YWHAH. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of YWHAH elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for YWHAH. It may not necessarily be applicable to this product.

NCBI GI #	4507951
NCBI GeneID	7533
NCBI Accession #	NP_003396.1
UniProt Primary Accession #	Q04917
UniProt Related Accession #	Q04917
GenBank Nucleotide #	NM_003405.3
NCBI Official Full Name	14-3-3 protein eta
NCBI Official Synonym Full Names	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta
NCBI Official Symbol	YWHAH
NCBI Official Synonym Symbols	YWHA1
UniProt Protein Name	14-3-3 protein eta
UniProt Synonym Protein Names	Protein AS1
Protein Family	14-3-3 protein
UniProt Gene Name	YWHAH
UniProt Synonym Gene Names	YWHA1
UniProt Entry Name	1433F_HUMAN
NCBI Protein Information	14-3-3 protein eta; 14-3-3 eta; tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide
NCBI Summary for YWHAH	This gene product belongs to the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. This highly conserved protein family is found in both plants and mammals, and this protein is 99% identical to the mouse, rat and bovine orthologs. This gene contains a 7 bp repeat sequence in its 5' UTR, and changes in the number of this repeat have been associated with early-onset schizophrenia and psychotic bipolar disorder. [provided by RefSeq, Jun 2009]

UniProt Comments for YWHAH	14-3-3 eta: a protein of the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. A multifunctional regulator of the cell signaling processes. Protein type: Nuclear receptor co-regulator; Adaptor/scaffold Chromosomal Location of Human Ortholog: 22q12.3 Cellular Component: cytoplasmic vesicle membrane; cytoplasm; plasma membrane; cytosol Molecular Function: protein domain specific binding; insulin-like growth factor receptor binding; protein binding; enzyme binding; sodium channel regulator activity; protein heterodimerization activity; actin binding; glucocorticoid receptor binding Biological Process: intracellular protein transport; substantia nigra development; regulation of neuron differentiation; apoptosis; glucocorticoid receptor signaling pathway; positive regulation of transcription, DNA-dependent; regulation of synaptic plasticity; glucocorticoid catabolic process; negative regulation of dendrite morphogenesis; regulation of sodium ion transport
Research Articles on YWHAH	**1.** 14-3-3eta may be required for mitotic progression and may be considered as a novel anti-cancer strategy in combination with microtubule inhibitors.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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